

PREFACE

The fifth International Workshop on Ice Drilling Technology was held at the Nagaoka University of Technology, 30 October–1 November 2000. The task of the workshop was to promote exchange of information on recent progress, experience, problems and ideas in ice drilling technology and to stimulate and develop international cooperation in this field.

The first workshop was held in Nebraska, U.S.A. in 1974, followed by the second in Calgary, the third in Grenoble and fourth in Tokyo. During the past quarter of a century, ice drilling technology has developed greatly in response to scientific progress on past global climate study.

There were fifty-one participants from 11 countries, representing Australia, Canada, Denmark, France, Iceland, Germany, Russia, Switzerland, U.K., U.S.A. and Japan. Forty-one papers were presented at the workshop under thirteen major topics; (1) shallow drilling, (2) intermediate drilling, (3) deep drilling, (4) hot water drilling, (5) electro-mechanical drill, (6) dry hole drill, (7) ongoing and future drilling projects, (8) Martian ice cap drilling, (9) borehole logging, (10) ice core processing, (11) ice core quality, (12) physical properties of ice, and (13) drill camp operation and logistics.

It is hoped that this volume will contribute to the progress of ice drilling and related technology. Papers submitted for publication in this proceedings volume were refereed and edited in accordance with STANDARD NIPR publication practices. Our sincere thanks are due to all of the contributors and referees who have readily cooperated to bring about this volume. We also thank Ms. K. Hasegawa of the Library and Ms. M. Sakai of the Arctic Environment Research Center, National Institute of Polar Research for the proceedings.

March 2002

Nobuhiko Azuma and Yoshiyuki Fujii